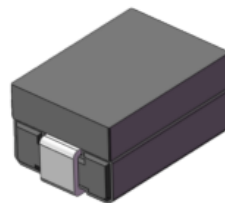


## CDG3833C

New Products

RoHS

AEC-Q200



### ■ Features

- SMD Inductors for High Current Applications
- Low DCR, high saturation current

### ■ Magnetic structure



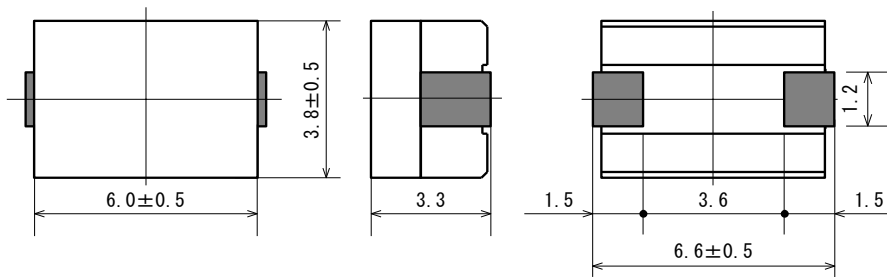
Operating Temperature Range : -40 °C~ +150 °C(include self-heating)

Weight : 0.3 g

### ■ Application

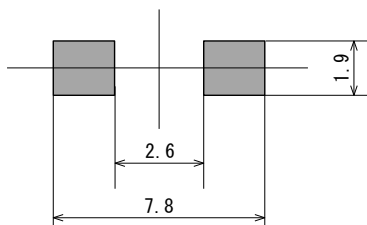
- Computer & Peripheral Device
- Motherboard, Graphic board
- Automotive
- ECU

### ■ Dimensions



(Unit : mm)

### ■ Recommended Land Pattern



SAGAMI ELEC CO., LTD.  
<https://www.sagami-elec.co.jp>

10-30, Ichibashimo-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0024, Japan  
Over Seas Sales Dept. TEL : +81 45 511 3141, E-mail : ossg@sagami-elec.co.jp  
Engineering Dept. TEL : +81 45 521 4543

⚠ The contents of this catalogue are subject to change without notice.

## ■ Specifications

| SAGAMI Part No. | Inductance<br>(nH) | DCR Resistance<br>(mΩ) | Rated current                             |   |
|-----------------|--------------------|------------------------|---|---|
|                 |                    |                        | DC saturation<br>allowable current<br>(A) | Teperature rise<br>allowable current<br>(A) |
| CDG3833C-45NM   | 45 ±20%            | 0.620                  | 63.4                                      | 32.1  |
| CDG3833C-65NM   | 65 ±20%            | 0.620                  | 46.4                                      | 32.1  |
| CDG3833C-80NM   | 80 ±20%            | 0.620                  | 41.3                                      | 32.1  |
| -               | -                  | -                      | -   | -   |
| -               | -                  | -                      | -   | -   |
| -               | -                  | -                      | -   | -   |
| -               | -                  | -                      | -   | -   |
| -               | -                  | -                      | -   | -   |
| -               | -                  | -                      | -   | -   |
| -               | -                  | -                      | -   | -   |

- Inductance Measuring Condition : 100kHz,1V
- Rated current : DC saturation allowable current or Temperature rise allowable current, whichever is smaller.
  - 1.DC saturation allowable current : value of inductance decrease 20%
  - 2.Temperature rise allowable current : A rise in temperature of core surface is 40°C



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# DC bias characteristics vs Temperature Rise Graph



L(25°C)



$\Delta T$

